

**Notice of Allowability**

Application No.

09/595,804

Examiner

Taghi T. Arani

Applicant(s)

HANNAH ET AL.

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 6/29/2006.
2. ☒ The allowed claim(s) is/are 1-5, 12-15, <sup>18</sup>19-25 and 27-34.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

Taghi T. Arani  
Primary Examiner  
AU 2131  
Taghi T. Arani  
7/24/06

### DETAILED ACTION

1. The text of those sections of Title 35 U.S. Code not included in this section can be found in the prior office action.
2. The prior office actions are incorporated herein by reference. In particular, the observations with respect to claim language, and response to previously presented arguments.
3. Claims 6-11, 16-17 and 26 have been cancelled.
4. Claim 34 is newly added.
4. Claims 1, 12, 18, and 28 have been amended.
5. Claims 1-5, 12-15, ~~18~~<sup>19</sup>-25, 27-34, now re-numbered as claims 1-25 are pending.

### EXAMINER'S AMENDMENT

6. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mark Rozman on 7/19/2006.

**Claims 11 and 26 have been cancelled.**

**Claims 1, 12, 18 and 28 have been replaced with:**

Claim 1 (Currently Amended) A method of broadcasting ~~television~~ video programming comprising:

generating an analog video signal with a graphical overlay pattern;

digitally encrypting an audio signal to provide a digitally encrypted audio signal;

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modulating a carrier with said digitally encrypted audio signal and said analog video signal; and

broadcasting said audio and video signals, wherein said digitally encrypted audio signal is broadcast using a plurality of overlapping subcarriers and the video signal is broadcast using an accompanying subcarrier.

Claim 12 (Currently Amended) A television- transmitter comprising:

a graphics pattern generator to provide a graphics pattern to add to a frame of an analog video signal to form an obscured video signal;

an analog-to-digital converter to receive an analog audio signal;

a digital encryption stage coupled to said analog-to-digital converter to generate a digital audio signal;

a modulator coupled to said digital encryption stage to generate a modulated audio signal;

and

a broadcaster to transmit the obscured video signal and the modulated audio signal using a plurality of overlapping subcarriers.

Claim 18 (Currently Amended) A television receiver comprising:

a video detector to separate a received television signal into audio and video component;

a device coupled to said video detector to remove a graphics overlay added to a frame of an analog video signal obtained from the received television signal to output an analog video signal;

an analog-to-digital converter coupled to convert an audio signal obtained from the received television signal into a digital audio bit stream;

a decryption stage coupled to said analog-to-digital converter;

a demodulator coupled to said decryption stage ~~analog-to-digital converter~~ to demodulate the digital audio bit stream:

a converter to convert the demodulated digital audio bit stream into an analog audio signal; and

a combiner to combine the analog video signal and the analog audio signal and to output a combined signal.

Claim 28 (Currently Amended) The method of claim ~~11~~ 1, further comprising encrypting a pattern identifier associated with the graphical overlay pattern and broadcasting the encrypted pattern identifier with the audio and video signals.

**Claim 34 has been newly added as follows:**

Claim 34 (New) The receiver of claim 27, wherein said guard interval comprises a portion of received symbol.

#### **Response to Arguments**

7. Applicant's arguments filed 6/29/2006 in view of the above Examiner's Amendment have been fully considered and they are persuasive.

#### **Allowable Subject matter**

8. Claims 1-5, 12-15, 19-25, 27-34 are allowed over prior art of record.

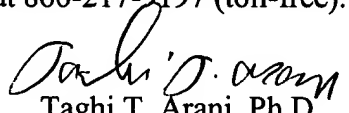
#### **Conclusion**

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Taghi T. Arani whose telephone number is (571) 272-3787. The examiner can normally be reached on 8:00-5:30 Mon-Fri.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on (571) 272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
Taghi T. Arani, Ph.D.  
Primary Examiner  
Art Unit 2131  
7/24/2006